AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Canceled)

2. (Currently Amended) ~~A~~ An isolated and cloned eukaryotic cell *in vitro* comprising a vector, said vector comprising (i) a first promoter operably linked to a nucleotide sequence encoding a selectable marker, wherein said nucleotide sequence lacks a functional polyadenylation signal, and (ii) a second promoter operably linked to an unpaired splice donor, wherein said vector is non-homologously integrated into the genome of said eukaryotic cell in such a way that a fusion transcript comprising the nucleotide sequence encoding the selectable marker or the unpaired splice donor or both and one or more exons of an endogenous gene is expressed under the control of said first or said second promoter and wherein said unpaired splice donor is spliced to a splice acceptor of said endogenous gene to produce said fusion transcript, and coding sequence in said endogenous gene is translated.

3. (Currently Amended) ~~A~~ An isolated and cloned eukaryotic cell *in vitro* comprising a vector, said vector comprising (i) a first promoter operably linked to a nucleotide sequence encoding a selectable marker, wherein said nucleotide sequence lacks a functional polyadenylation signal, and (ii) a second promoter operably linked to an unpaired splice donor, wherein said vector is non-homologously integrated into the genome of said eukaryotic cell in such a way that a fusion transcript comprising the nucleotide sequence encoding the selectable marker or the unpaired splice donor or both and one or more exons of an endogenous gene is expressed under the control of said first or said second promoter, and coding sequence in said endogenous gene is translated.

4. (Previously Presented) The eukaryotic cell of claim 2 or 3, wherein said cell is an animal cell.

5. (Previously Presented) The eukaryotic cell of claim 4, wherein said animal cell is selected from the group consisting of a mammalian cell, an insect cell, an avian cell, an annelid cell, an amphibian cell, a reptilian cell, and a fish cell.

6. (Previously Presented) The eukaryotic cell of claim 4, wherein said animal cell is a mammalian cell.

7. (Previously Presented) The eukaryotic cell of claim 6, wherein said mammalian cell is a human cell.

8. (Previously Presented) The eukaryotic cell of claim 2 or 3, wherein said cell is a plant cell.

9. (Previously Presented) The eukaryotic cell of claim 2 or 3, wherein said cell is a fungal cell.

10. (Previously Presented) The eukaryotic cell of claim 9, wherein said fungal cell is a yeast cell.

11 - 21. (Canceled)

22. (Previously Presented) A library of eukaryotic cells *in vitro* comprising a vector, said vector comprising (i) a first promoter operably linked to a nucleotide sequence encoding a selectable marker, wherein said nucleotide sequence lacks a functional polyadenylation signal, and (ii) a second promoter operably linked to an unpaired splice donor, wherein said vector is non-homologously integrated into the genome of said eukaryotic cell in such a way that a fusion transcript comprising the nucleotide sequences encoding the selectable marker or the unpaired splice donor or both and one or more exons of an endogenous gene is expressed under the control of said first or said second promoter and wherein said unpaired splice donor is spliced to a splice acceptor of said endogenous gene to produce said fusion transcript, and coding sequence in said endogenous gene is translated.

23 - 25. (Canceled)

26. (Currently Amended) The eukaryotic cell of claim 2 or 3, wherein said promoters are selected from the group consisting of a CMV immediate early gene promoter, an SV40 T antigen promoter, a tetracycline-inducible promoter, and a β-actin promoter.

27. (Currently Amended) The eukaryotic cell of claim 2 or 3, wherein said selectable marker is selected from the group consisting of neomycin, hypoxanthine phosphoribosyl transferase, puromycin, dihydrooratase, glutamine synthetase, histidine D, carbamyl phosphate synthase, dihydrofolate reductase, multidrug resistance 1, aspartate transcarbamylase, xanthine-guanine phosphoribosyl transferase, adenosine deaminase, and thymidine kinase.

28. (New) The eukaryotic cell of claims 2 or 3, wherein said first and second promoters are present in said vector in the same orientation.

29. (New) The eukaryotic cell of claim 28, wherein said vector is linear and wherein said selectable marker is located 3' to said first promoter.

30. (New) The eukaryotic cell of claim 28, wherein said vector is linear and wherein said second promoter is located 5' to said unpaired splice donor.

31. (New) The eukaryotic cell of claims 2 or 3, wherein said vector further comprises one or more transposition signals.

32. (New) The eukaryotic cell of claims 2 or 3, wherein said vector further comprises one or more amplifiable markers.

33. (New) The eukaryotic cell of claims 2 or 3, wherein said vector further comprises one or more viral origins of replication.

34. (New) The eukaryotic cell of claims 2 or 3, wherein said vector further comprises one or more viral replication factor genes.